

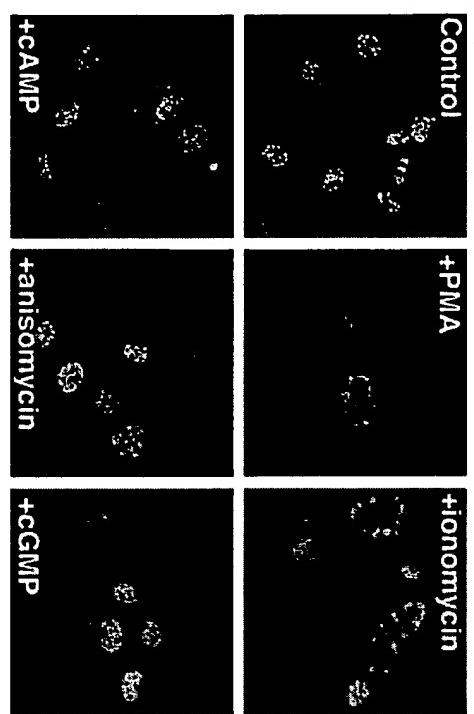
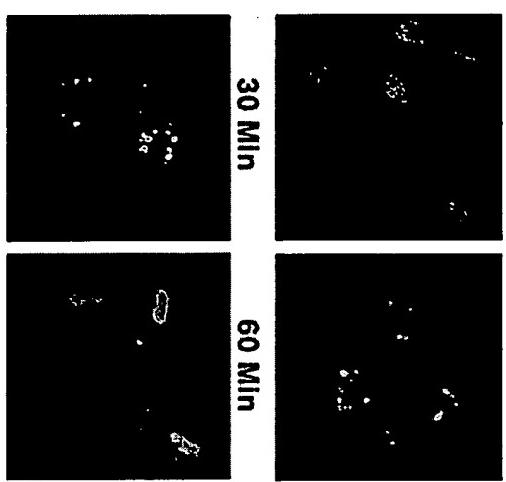
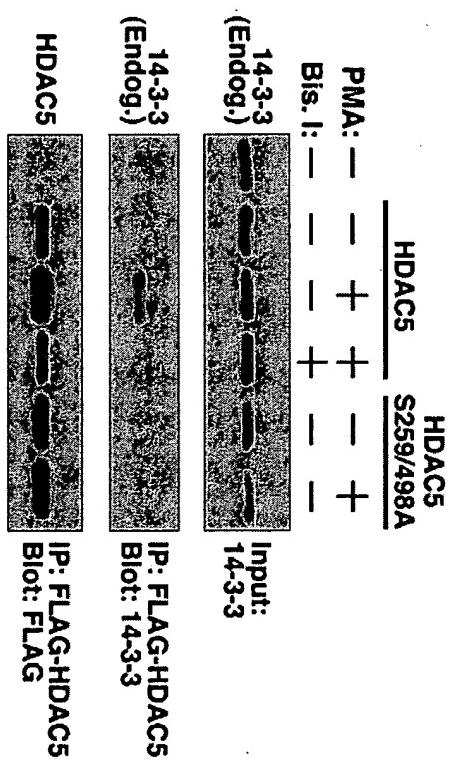
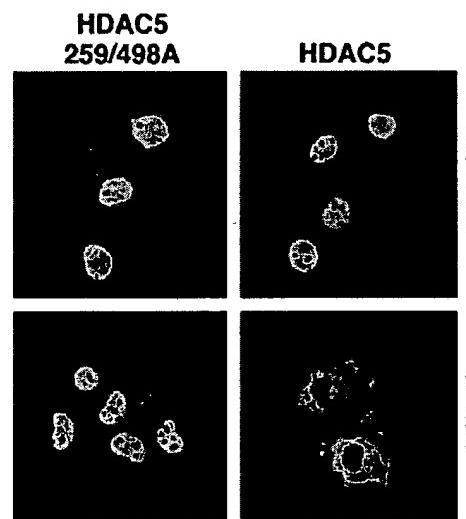
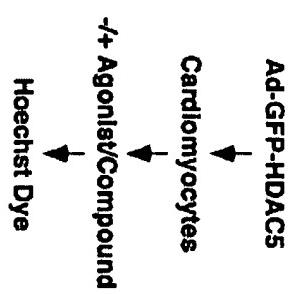
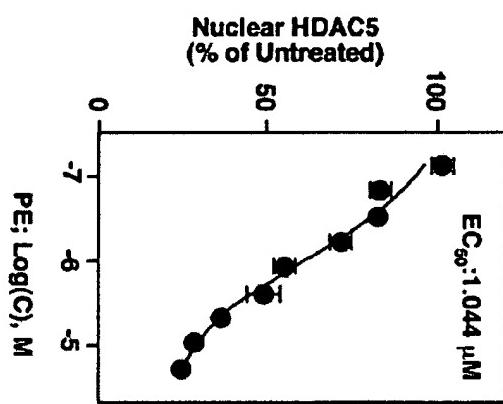
**A****C****D****B**

FIG. 1A-D

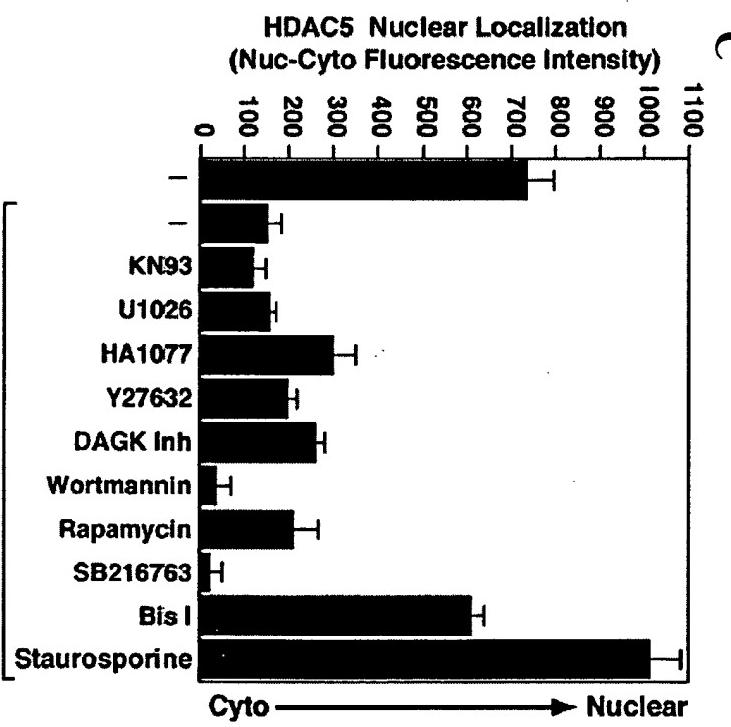
A



B



C



D

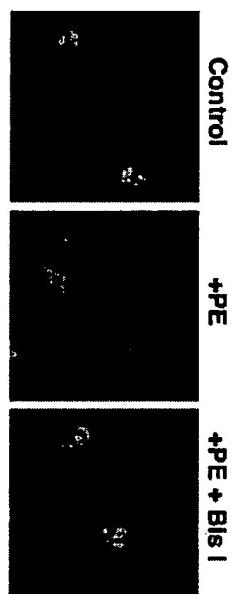


FIG. 2A-D

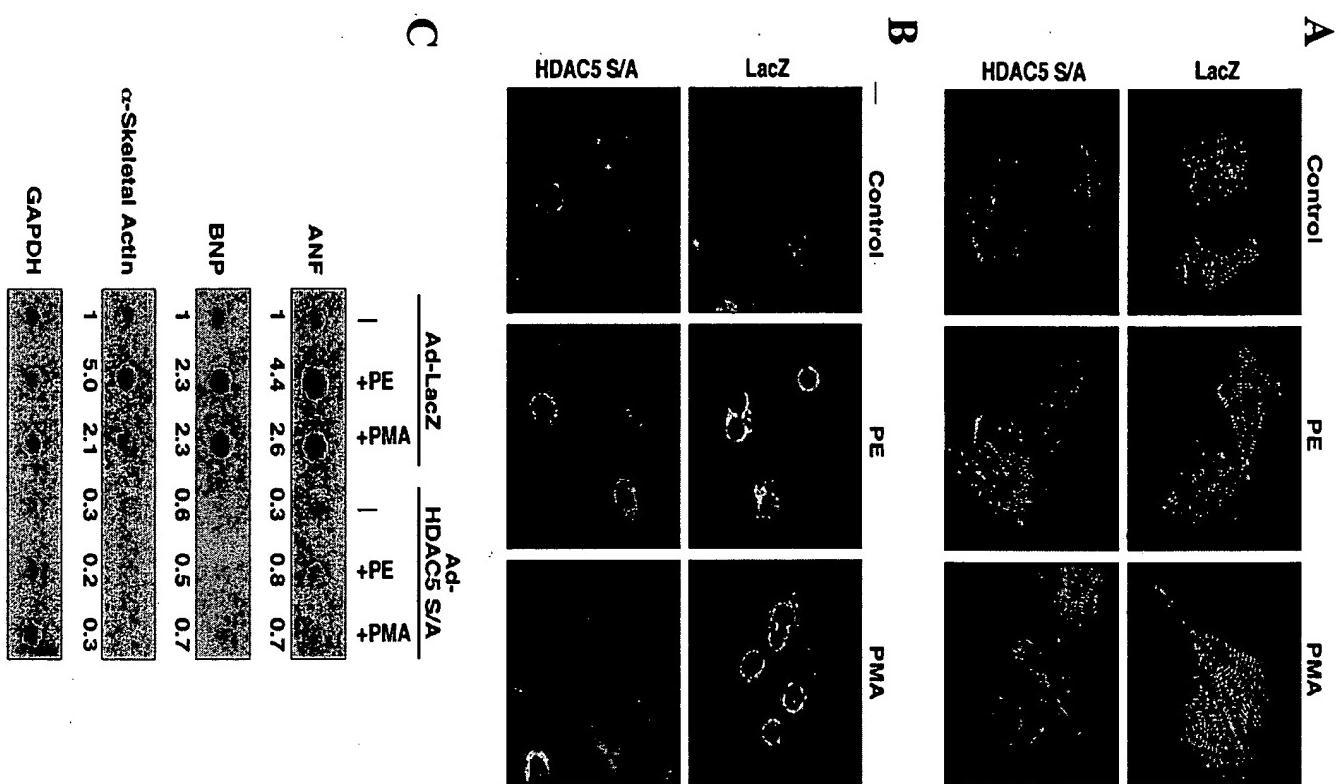
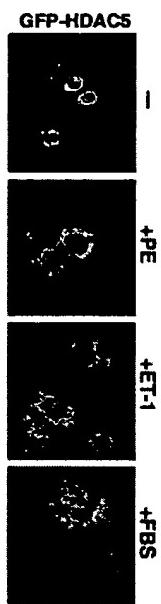


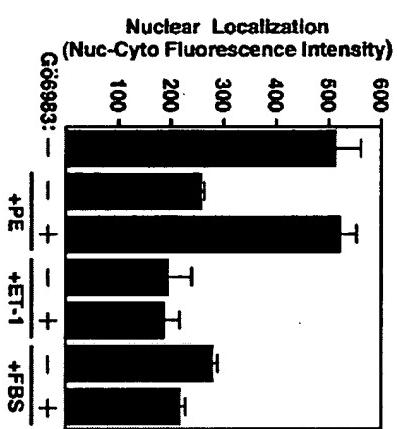
FIG. 3A-C

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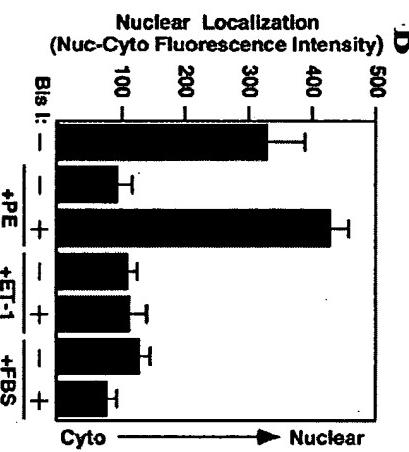
A



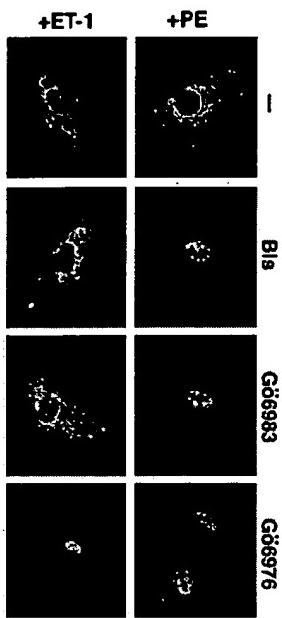
C



B



E



F

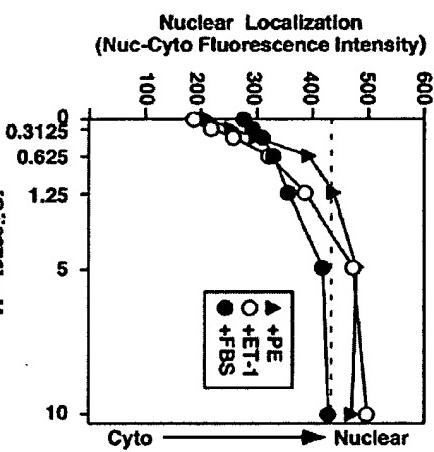


FIG. 4A-F

HDAC5  
Bis I:  
Gö6976:  
14-3-3  
(Endog)  
IP: GFP-HDAC5,  
Blot: 143-3

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**HDAC4:** 246 467 2

1

2

GFP-HDAC5 L254V/G33G

Control +PMA

1

HDAC5: 259 498

100

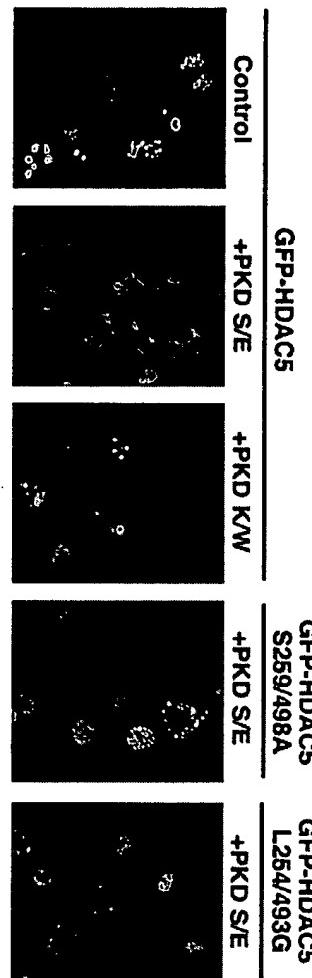
1

133

<b>HDAC4:</b>	L	R	K	T	A	S
<b>HDAC5:</b>	L	R	K	T	A	S
<b>HDAC4:</b>	L	S	R	T	Q	S
<b>HDAC5:</b>	L	G	R	T	Q	S
<b>PKD:</b>	L	X	R	X	X	S
					467	
					498	

1

10



<u>HA-</u>	<u>PKD</u>	<u>HA-</u>
<u>PKD</u>	<u>S/E</u>	<u>PKD</u>
<u>-</u>	<u>+</u>	<u>-</u>
<u>+</u>	<u>-</u>	<u>+</u>

### Phospho-HDAC5

IP: FLAG-HDAC5,  
IVK

## HDAC5

IP: FLAG-HDAC5,  
BLA: FLAG

PKD

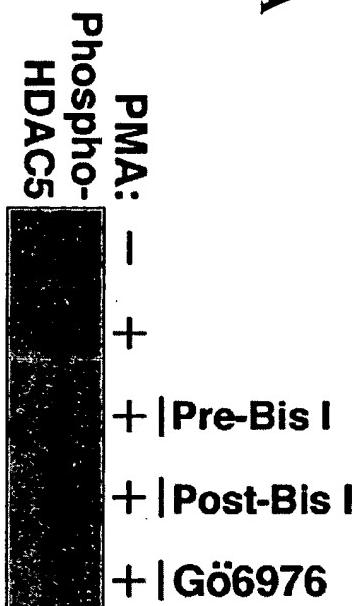
Construct	14-3-3-VP16	PKD S/E:	Normalized RLU
WT	+	WT	~10
S259A	-	S259A	~10
S498A	+	S498A	~10
S259/S498A	+	S259/S498A	~75

**IP: FLAG-HDAC  
Blot: HA**

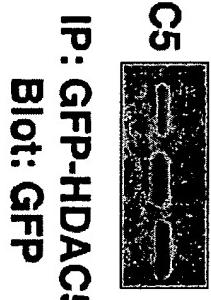
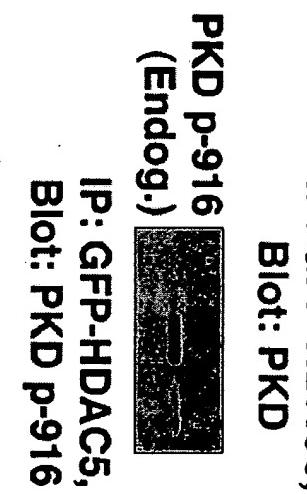
FIG. 5A-E

BEST AVAILABLE COPY

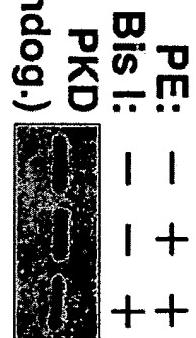
A



IP: FLAG-HDAC5,  
IVK



B



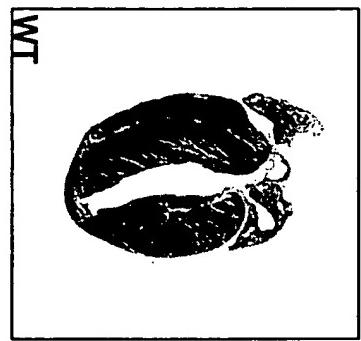
IP: GFP-HDAC5,  
Blot: PKD



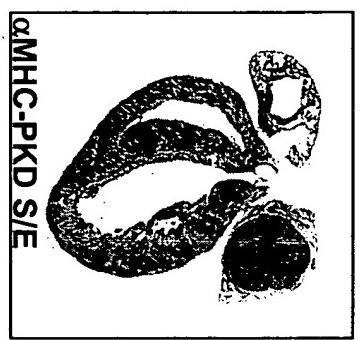
BEST AVAILABLE COPY

FIG. 6A-B

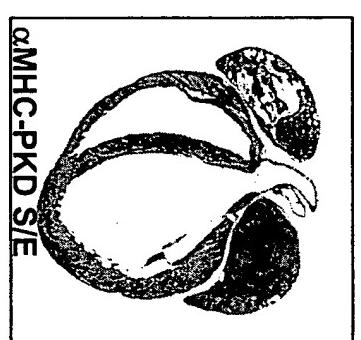
A



8 Weeks

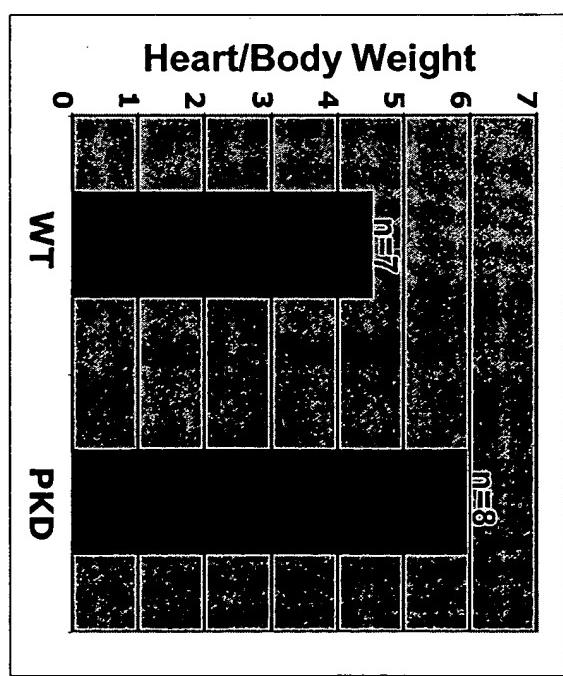


8 Weeks



4 Months

B



D

C

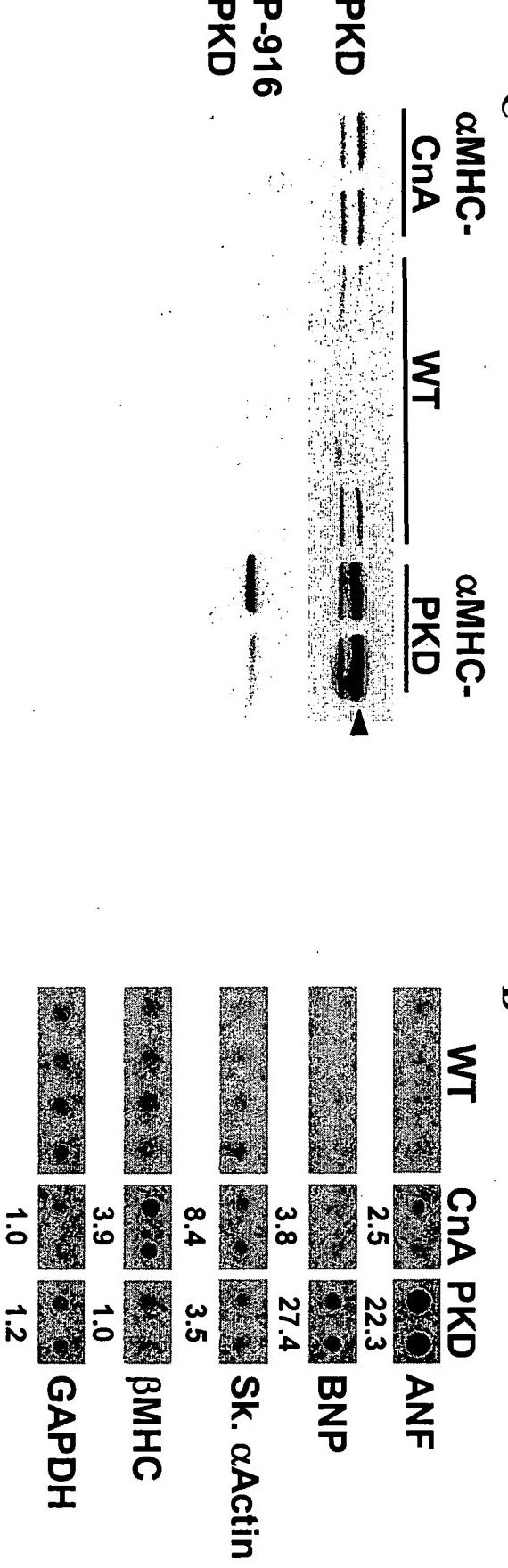


FIG. 7A-D

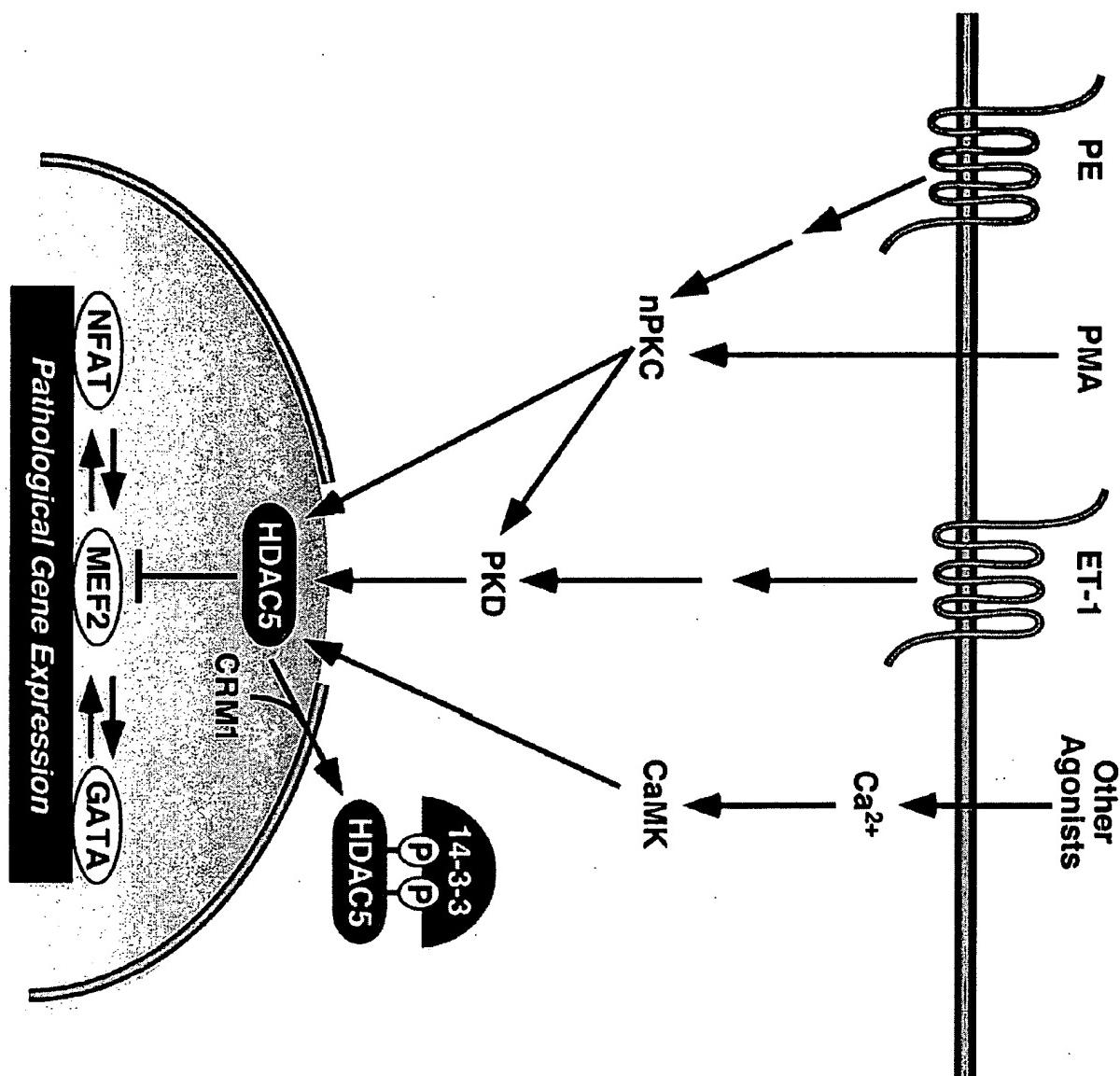


FIG. 8